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JUNE - 1950

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"ASBESTOS"

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Estate of C. J. STOVER, *Proprietor*

A. S. ROSSITER, *Editor* E. E. COX, *Circulation Manager*

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"SAVE FOR YOUR INDEPENDENCE"

"Save for your Independence, Buy U. S. Savings Bonds" is the slogan this year for the Independence Drive to stimulate the sale of E Bonds during the period May 15 to July 4th. The insigne of the drive is the Liberty Bell as below.

During the drive 52 exact replicas of the Liberty Bell, donated by the nation's copper industry and built under the supervision of world-famous bellmasters will visit more than 2,000 communities in the forty-eight states and the District of Columbia. Three of the bells are being earmarked for territories awaiting statehood. Special ceremonies will be held in each community to herald the arrival and exhibition of the Bell. Transportation for the Bells and the equipment has been contributed by the Ford Motor Company.

The objective of the Drive is the sale of $650,000,000 worth of E Bonds during the 7 weeks period.

We are proud to contribute our small part to the Drive.

THE FUTURE OF THE INDUSTRY

Last month (page 3) we discussed the importance of the shorter grades of asbestos fibres, and on page 14 of our March number the many purposes for which "shorts" are being used, uses not known just a few years ago. In fact it has not been too long ago that the short grades of asbestos fibre now in such huge demand were thrown on the dumps, with the result that today dumps both in South Africa and Canada are being worked over to recover some of these now valuable fibres.

New uses are constantly being discovered; new asbestos products are constantly being invented. Just recently we heard of two rather novel uses for a type of asbestos formerly regarded as useless. We cannot tell you about them just yet but we hope to be able to do so when the processes are further along than the present experimental stage, within the next few months perhaps.

Yes the future lies before the Asbestos Industry with an increasingly roseate hue.

FACTS WANTED

In editing the various articles, news items, etc., which are published in "ASBESTOS" we try at all times to give pertinent facts—rather than theories. This is one of our standard policies.

It was therefore quite interesting to find that the award made recently by the American Institute of Architects and the Producers' Council, Inc., on building products literature was based on this same policy.

One of the awards went to the Ruberoid Co. for their book of facts on built-up roofs and flashings, designed to give the architect detailed information about materials and methods of application for use in solving the problem of specifications for differing conditions and purposes and different kinds of buildings.

The jury making the award selected the book by The Ruberoid Co. because "architects most appreciate in promotion literature, facts from informed sources, presented with a minimum of sales propaganda and arranged for quick and convenient access of data needed for a particular job". The book also contained a unique tab index making it easy to find quickly the kind of information needed.

. . . —

¶ A survey for fresh mineral deposits in Cyprus will start this year. The survey, covering 900 square miles is expected to last four years. It is being financed by the Colonial Development and Welfare Fund. This announcement was made on April 17, in Nicosia, Cyprus, according to the Mining Journal of London. Whether the survey may include asbestos in any way is not known.

SPEAKING ABOUT ASBESTOS YARN

By Gerd M. Bloomfield

G. M. Bloomfield is Manager of Specifications and Quality Control of Union Asbestos & Rubber Co. He has been connected with that Company since 1940.

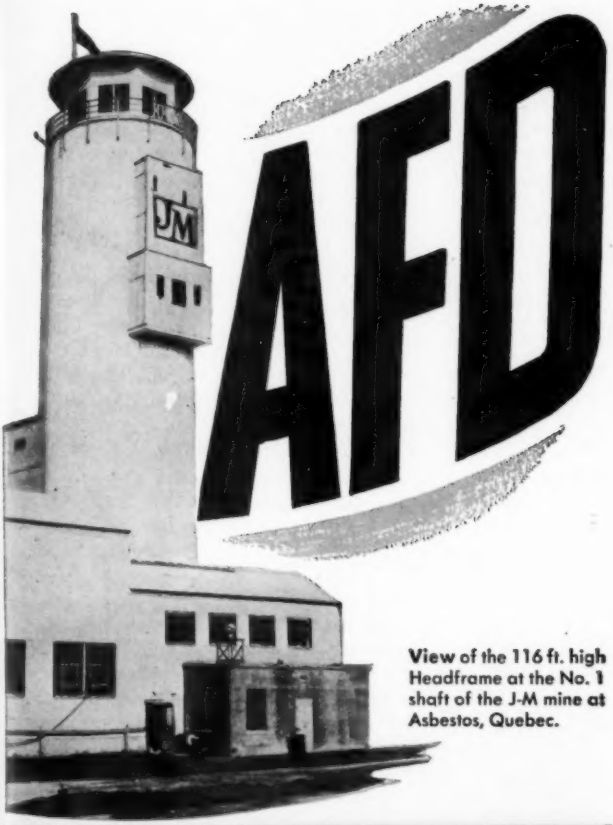
Previous to that, until 1938, he was an executive of a leading asbestos concern in Europe.

In 1946 and 1947, on leave of absence from Union Asbestos & Rubber Co., Mr. Bloomfield served as Scientific Consultant for the Technical Industrial Intelligence Division (U. S. Dept. of Commerce) with the Field Information Agency Technical of the Military Government in Germany.

Everybody professionally connected with asbestos meets ever so often people who prove how little is known to the general public about asbestos. The reaction usually is: "Oh, asbestos! I know what asbestos is; the missus uses it at home on the stove." Only the better informed people will know a little about the value of asbestos in one or another of the many fields of application.

In all these cases, the man connected with the asbestos business takes extreme delight in broadening the knowledge of his fellow men and women. At great length he will explain that asbestos is a mineral and unique as such, that it was known in ancient times as "magic flax", that it was known and used, tho apparently only as a curiosity in ancient Rome and Greece, and that the history of later centuries shows only a few references until the latter part of the 19th century. He would further reveal that, apparently, asbestos and its use was not unknown to the old Chinese culture, but that it became a "lost art" until the development of modern techniques made the use of asbestos practically essential.

Thus, telling the story of asbestos he takes considerable pride to be almost a contemporary to the rediscovery of this "lost art". But how little does he know of what actually became a "lost art", namely, how the people in ancient times with their primitive methods were able to process the asbestos fibre? It is true that the spindle is one of the oldest technical developments which, in principle, has not changed to this day. But in view o



AFD

View of the 116 ft. high Headframe at the No. 1 shaft of the J-M mine at Asbestos, Quebec.

ASBESTOS FIBRE DIVISION
Canadian Johns-Manville Limited
814 Sun Life Bldg. (Telephone: Marquette2421) Montreal, P. Q., Canada

the nature of the asbestos fibre, even the most experienced hands, able to make the most wonderful yarn from wool cotton, etc., must have been faced with extreme difficulties by attempting to spin asbestos yarn.

And this too, I may say, has not changed to this day The spinning of asbestos yarn offers to the people of the asbestos textile line never ending problems.

The rapid developments in modern technique and the ever increased requirements in quality and scope of asbestos textiles means to the asbestos textile producer a continuous search for new and better methods to improve the quality and to increase the range of products and applications. And in view of the limitations, which the nature of the asbestos fibre places on the spinnable yarn number and the quality, the producer of asbestos textiles is confronted with the ever present challenge to find ways and means to overcome difficulties usually unknown to the general textile trade.

An indication of the comparable youth of the asbestos industry is the numbering system applied to asbestos yarn. Having its outstart in Europe where the metric system was generally introduced by that time, one did not choose to follow the old established numbering system used for textile products. This was a considerable step away from the domineering cotton numbering system, and the acceptance of the metric system, no doubt, helped to establish the close relationship between the asbestos industry and the consumers of asbestos yarn without having it considered as "another textile yarn". The metric system means that each full number is equivalent to 1000 meters single yarn per kilo, with 1 kilo = 1000 grams. When the spinning of asbestos yarn in the United States was introduced, it was recognized that this system should be followed as far as possible. However, this country, accustomed to pounds and yards, could not accept the metric numbering system of Europe in its entirety, and the number for asbestos yarn was based on multiples of 100 yards per pound. This number is called "No. Cut" taken from the old textile trade where the word indicated a length of cloth cut from a

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warp, and later on indicated a standard length cut according to trade customs. The range of numbers, in which asbestos yarn is generally spun, is on account of limitations, set by the material, from No. 4 Cut to No. 16 Cut. However, considerably finer yarn, especially for insulating tape and similar uses is being spun. Since future market conditions may develop into business relations with countries using the metric system, a conversion table may be of interest.

YARN NUMBER CONVERSION TABLE FOR SINGLE YARN

No. Cut	Yards per Lb.	No. Metric	Meters per Kilo	No. Cut	Yards per Lb.	No. Metric	Meters per Kilo
4	400	.8	800	14	1400	2.8	2800
5	500	1.0	1000	15	1500	3.0	3000
6	600	1.2	1200	16	1600	3.2	3200
7	700	1.4	1400	18	1800	3.6	3600
8	800	1.6	1600	20	2000	4.0	4000
9	900	1.8	1800	22	2200	4.4	4400
10	1000	2.0	2000	24	2400	4.8	4800
11	1100	2.2	2200	26	2600	5.2	5200
12	1200	2.4	2400	28	2800	5.6	5600
13	1300	2.6	2600	30	3000	6.0	6000

From this table showing the values of single yarn, it is easy to find the yards per lb. or meters per kilo of asbestos yarn twisted from two or more strands of single asbestos yarn to form a heavier and stronger material.

Such a twisted yarn is identified by the number of the single yarn and the number of strands twisted together. Therefore, "2 ply 10 cut" indicates a yarn of two strands twisted together, each strand being No. 10 cut. This plied yarn is usually identified as No. 1020 Asbestos Yarn, while in the metric system, the same yarn would be identified with 2, 0/2.

The nominal amount of yards per lb. or meters per kilo of plied (twisted) asbestos yarn is determined as follows: The nominal length of the single yarn is divided by the number of strands in the twisted yarn, and the length so obtained is reduced by 10% to allow for the contraction caused by twisting. This reduction of 10% is constant regardless of the number of strands. In cases where asbestos yarn is reinforced by wire, the number is determined on the basis of the plain asbestos yarn. In

such a case, the number of wire strands is shown as the last digit of the number of the plied yarn. Going back to the example of the 1020 yarn shown before, the same yarn, with one strand of wire twisted by, would be called No. 1021.

An old mill hand who had worked his way up to the job of an assistant supervisor once remarked: "Never forget that it is the Preparing Department where the asbestos yarn is made." With this in mind, every improvement, modification or change of quality should begin with the proper preparation of the spinning mix. Due to the raw material, with which an asbestos spinner has to deal, and the variations in the production machinery depending on its running time, adjustments in the Preparing Department are frequently needed. These changes, however, can be cut down to a minimum if the spinning mix can be standardized to a degree which normally the nature of the raw material would not allow.

It is easily understandable that the finer the number of the requested yarn is, the better a spinning mix is needed with regard to fibre length and spinnability. Also, it has to be taken into account which grade of asbestos yarn is to be made from the spinning mix. The grade is determined by the percentage of the asbestos content by weight and should conform with the following specifications in accordance with generally accepted standards.

Grade	Asbestos Content
Commercial Grade	75 to 80 per cent, excl.
Underwriters' Grade	80 to 85 per cent, excl.
Grade A	85 to 90 per cent, excl.
Grade AA	90 to 95 per cent, excl.
Grade AAA	95 to 99 per cent, excl.
Grade AAAA	99 to 100 per cent, incl.

In the case of metallic yarn, this asbestos content refers only to the plain asbestos yarn after the wire has been removed. It would go too far to elaborate here on the various qualities of raw asbestos and to explain the reasons why one quality is suited and another one is not suited for textiles purposes. We can let it go with the statement that, for processing on textile machinery, Chrysotile Asbestos as found in Canada, Rhodesia and

the Ural Mountains is the raw asbestos generally accepted by the asbestos textile industry.

The second part of this article concerns the blending of the asbestos fibre with cotton or other organic fibrous material, and will be published in our July number.

CYPRUS ASBESTOS MINES LIMITED

The report of the Cyprus Inspector of Mines for the year 1949 contains the following information on Cyprus Asbestos Mines Limited, which may prove of interest to our readers:

"The Amiandos asbestos mine, situated on the Troodos mountains, operated thruout the dry season on a considerable scale and the production of asbestos fibre reached the highest level since 1929. Factors which contributed to the substantial increase in production over recent years were additional mechanization, improvements in the layout of the quarries, a plentiful labor supply and freedom from labor disputes, and a reasonably long dry season.

"The maximum number of laborers employed during the working season was 2,410 as compared with 1,654 in 1948. 1,189,671 tons of asbestos-bearing rock were quarried, and eight mills were in operation which treated 344,130 tons of raw material and produced 12,358 tons of asbestos fibre. Comparative figures for 1948 were 753,713, 291,236 and 8,935 tons respectively. 11,098 tons of fibre were exported.

"Market conditions were expected to remain favorable for the disposal of the output during the coming production season, altho a falling-off in the demand for the shorter grade of fibre produced had been noticed.

"Expenditure on buildings, machinery, plant and equipment during the year amounted to £70,403. Included in this item was the erection of a 1,450 B. H. P. Mirrlees diesel engine in the power plant."

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CANADA'S ASBESTOS GOODS - 1948

The Asbestos Products Industry, 1948, a four page folder issued recently (it was mentioned on page 47 of our May 1950 number) by the Dominion Bureau of Statistics at Ottawa, gives various statistics concerning Canada's asbestos manufacturing industry. Briefly, a few figures are of especial interest: production by the manufacturers of asbestos goods in Canada in 1948 was valued at $8,079,823, an increase of 13.5% over the 1947 total of $7,115,767.

Divided as to products, these figures will be of more than usual interest:

	1948			1947	
	(Unit)	Quantity	Cost at Works	Quantity	Cost at Works
Asb. Brake Linings					
Molded	ft.	3,799,250	$1,231,144	4,785,547	$1,141,159
Other	ft.	938,662	390,717	1,606,011	503,319
Asb. Pipe & Boiler Covg.	..	....	880,529	....	603,316
Asb. Clutch Fcgs.	no.	936,225	420,311	1,079,894	435,430
Asb. Gaskets	lb.	40,790	36,765	60,923	44,538
Asb. Packings (all kinds)	....	....	259,085	....	313,718
All other products[1]			4,861,272		4,074,287
			$8,079,823		$7,115,767

[1]Includes products made by one or two firms, such as asbestos dryer felt, hydraulic brake hose, asbestos shingles, asbestos yarn, millboard, asbestos-cement wallboard, asbestos cloth, etc.

Likewise the following table.

	1948	1947
Number of Plants	15	14
Av. number of employees	1,020	966
Cost of Fuel and Elec. at works	2,213,670	1,807,614
Salaries and wages	363,756	306,961
Cost of materials at works	4,217,225	3,773,792
Gr. selling Value of Products at works	8,079,823	7,115,767

Of the 15 factories reported in 1948, 6 were located in Quebec, 5 in Ontario, 1 in Nova Scotia, 1 in Alberta and 2 in British Columbia.

Other tables, concerning hours worked, salaries, wages, etc., are included in the pamphlet, which may be obtained from the Industry and Merchandising Division at Ottawa for 15 cents. Ask for Pamphlet A63.

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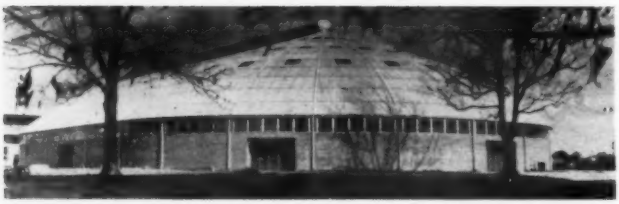
CORRUGATED USED AS ROOF OF DOME

The Blackham Coliseum on the Southwestern Louisiana Institute campus is of especial interest to the Asbestos Industry in general and the Asbestos Cement Products Division of that Industry particularly because of the somewhat unique use of Asbestos-Cement Corrugated to form the dome.

The structure is oval in shape, 250 feet long by 150 feet across and is surmounted by a mammoth dome as



The Blackham Coliseum—note the huge dome—of Asbestos Cement Corrugated

shown in the photograph. A system of steel trusses supports the roof; there are no pillars or posts to obstruct vision or divide the floor area. The seating capacity is 5,000 persons.

The photograph gives the idea that the dome is curved to the ridge, but as a matter of fact only the starting course was made of curved material (asbestos-cement corrugated) —the rest was made of the regular straight sheets of corrugated. Economy of construction was achieved by the use of the corrugated sheets over skeleton construction.

The coliseum was designed by A. Hays Town, Baton Rouge architect; the contractor was the E. B. Ludwig Construction Company of New Orleans. It will be used principally for stock shows, flower shows, basketball games and the Mid-Winter Fair.

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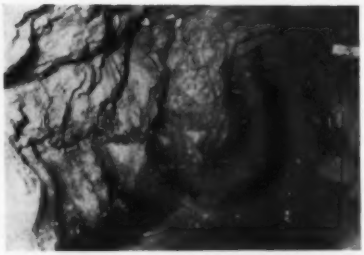
ASBESTOS MINE IN ALASKA

At present the Asbestos deposit in the Kobuk Region, Alaska, is not being operated, but with Alaska becoming more and more important in its commercial development, it is possible that the asbestos found there will also become commercially important.

Some of the material in Alaska is good quality silky

Surface Trench where Asbestos was Mined.



Interior of Tunnel —Note Miner, barely visible, at left.

Outcroppings on Wall of Tunnel.

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crude, according to specimens we have received, but other material is of the amphibole variety, and at present at that distant point is not important commercially.

The photographs were taken in September 1946 and show a vein which was mined out about that time. Search was being made for other veins but so far we do not know that the search was successful.

The deposit is located at the summit of Ing-Ik Mountain, at an altitude of 7,00 feet. It was situated about 12 miles from the village of Kobuk, on the Kobuk River. Jade in large quantities was also mined in that region. The owners and developers of the deposit at that time were the Arctic Circle Exploration, Inc.

Photographs supplied by Janet Virginia Lee, Photographer, 91 Sheridan Square, Evanston, Ill.

MILLING 'AMOSITE' and 'BLUE' ASBESTOS

The milling processes for Amosite and Blue Asbestos are quite a bit different from that employed in the preparation of Chrysotile. The Department of Mines of the Union of South Africa published an article in its quarterly report for the July-August-September 1949 period on the subject. This has been reprinted by the South African Mining and Engineering Journal and the Mining and Industrial Magazine (both published in Johannesburg) and we believe our readers would like to read the article also.

. . . —

The rock encasing amosite and crocidolite, known in the trade "blue" asbestos, is of an extremely hard nature, usually consisting of banded ironstones and hard shales, which present peculiar difficulties in the preparation of a good marketable fibre.

The asbestos-bearing rock as mined rarely contains more than 5% fibre, the remaining 95% consisting of deleterious gangue matter. As much as possible of this gangue matter must be eliminated between the breaking of the ore body in the mine and the bagging of the final fibre product for the market.

The principles of milling the amosite and blue fibres differ materially from those used in the milling of

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chrysotile asbestos.

The removal of the fibre by aspiration thru a hood placed over screens has not proved successful due—

(a) To the hardness of the gangue and the difficulty associated with its liberation from the fibre;

(b) To a greater reluctance of the asbestos to fiberise when crushed;

(c) To a greater tendency for the fibres to entwine into a relatively heavy mat which carries off a considerable portion of gangue with it.

The aim of an efficient milling process is to produce clean asbestos of even fibre length and in so doing cause a minimum of damage, mainly thru cutting, to the original fibre. There are a variety of modifications of the flowsheet by which gangue matter is removed and these variations depend upon the scale of operations, the situation of the mine (some deposits are mined in very difficult and almost inaccessible locations upon which no mill can be erected), the length of the fibre, the number of fibre seams which make up the ore body, etc.

Climatic conditions in most of the South African producing areas are such as to render driers in the flowsheet redundant. Should, however, intensive wet mining methods be found necessary, then their use may be essential.

The amosite and blue fibres to be recovered by milling are found in layers of varying thickness up to about one inch between parallel layers of rock. The first step after blasting is to separate by hand as much barren rock and long fibre material as possible. Frequently the sorted waste fibre rock is packed in the mine to assist in supporting the excavated area. The crude ore is then transported direct to the mill, altho in many cases it is first hand-cobbed on a convenient site at the mine. The process of hand cobbing consists merely of holding a piece of asbestos bearing rock in one hand and striking off the adhering rock with a hammer held in the other hand.

On reaching the mill the ore is usually fed into a primary jaw crusher for preliminary size reduction fol-

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lowed by screening to remove gangue fragments. Further crushing preferably by rolls, and screening follows in order to remove gangue which has been passed thru the screens; at the same time the asbestos is gradually splayed or fluffed to various extents by each crushing and remains on the screens. The final crushing stage is usually carried out in an impact type disintegrator or hammer mill. The speed of the disintegrator must be adjusted to be high enough to break up the non-fibrous particles remaining in the feed and at the same time low enough to avoid excessive abrasive action which will damage the fibres.

The driving mechanism for the screens is by eccentric, preferably with variable throw control, so that the amplitude of the throw imparted to the screen-deck can be adjusted to suit the material being treated. Regulation of the strokes per minute and the slope of the screens should be easily adjustable to ensure efficient screening.

The final product is then bagged and marked according to the grade designated by the producer.

BLACK SHINGLES

Velvet black and midnight black have replaced blue-black slate granules on the entire Carey line of slate-surfaced asphalt shingles, slate-roll roofings and Fire-Chex shingles.

The new granules are said to embed perfectly in the coating asphalt of asphalt shingles and roll roofings and in the asbestos plastic coating of Fire-Chex shingles. Further information may be obtained from the Company's Cincinnati Office.

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MARKET CONDITIONS

GENERAL BUSINESS

Practically all durable goods show high demand and backlogs of unfilled orders are huge. Cotton goods are also in increased demand.

Retail sales of automobiles are breaking all records and it looks as tho 1950 would set an alltime high in automobile sales, an estimated figure for 1950 being 8,700,000 (barring strikes) against actual sales in 1949 of 6,238,088.

ASBESTOS — RAW MATERIAL

Asbestos Fibre production is running at a high level. Demand is keeping abreast of production in practically all grades. Foreign shipments account for a larger percentage of output than normally.

Many inquiries from import and export houses covering the same demand from the Far East have a tendency to exaggerate requirements for that area.

ASBESTOS — MANUFACTURED GOODS

Asbestos Textiles. The overall picture in the Asbestos Textile market continues to be good. Inquiries for cloth, lap, roving and yarn continue at a high level. Listing orders have picked up slightly. It is believed business in this commodity will continue on the same even trend for the rest of the summer.

Brake Lining. The replacement market has recovered from its January-February slump and is running ahead of last year.

Despite the influx of the large number of new cars on the road there is no apparent "junking" of the old cars, at least in quantity. Therefore the market both from equipment and replacement viewpoints is at an alltime high.

Asbestos Paper. Jobbers are stocking more at present than during the last quarter and paper is moving to consumers in sufficient volume to keep production up to normal. Good business is expected for the balance of the year.

As to *Saturated Paper* (felt in other words) better weather has stimulated the demand and undoubtedly in-

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creasing requirements will be seen during the next four or five months.

Asbestos Millboard. Volume in both equipment and commercial business is continuing normal. The rest of the year should bring in sufficient business to keep production up to capacity.

Insulation. High Pressure. While the backlog of orders in this division of the Industry is practically nil, a large volume of work is being figured which should reach factories in from three to six months. In fact some manufacturers say a substantial improvement has been noticed during April and May. This improvement, however, seems to be spotty rather than general.

Maintenance work is also mentioned as being quite a factor in the market improvement.

Insulation. Low Pressure. This market has been holding better than was expected. Prices are firm except in a few scattered markets. Improvement is noticed in stocking by jobbers and new building has helped volume. The fall season should be active.

Asbestos-Cement Goods. Sales of all asbestos cement materials are reported as continuing at a satisfactory rate and prospects for the next few months are encouraging. In fact the market is regarded as steady with continued improvement due to seasonal factors.

Demand for corrugated sheathing has picked up and will probably equal capacity production for the next several months.

During the past month demand for water and sewer pipe has greatly increased with the result that backlogs are increasing and deliveries are again becoming a serious problem. Flue and house connection sewer pipe demand also is strong because of the high level of home construction.

The above comments are compiled from information sent us by men in close touch with the various markets. Your comments are requested.

TURNER & NEWALL Ltd

RAW ASBESTOS DEPARTMENT

FOR CANADIAN, RHODESIAN
AND SOUTH AFRICAN ASBESTOS

ASBESTOS HOUSE · 77-79 FOUNTAIN ST.
MANCHESTER 2
ENGLAND

Africa (S. Rhodesia)
(Published by Rhodesia Chamber of Mines)
Tons—2000 lbs.

Production for February 1950	5,541.35
Valued at	£334,344

Africa (Swaziland)

Production for February 1950	2,750 tons (2000 lbs.)
Production for March 1950	2,815 tons (2000 lbs.)

Canada
(Department of Mines, Province of Quebec)
Tons—2000 lbs.

Production April 1950	68,724 tons
Compared with April 1949	16,002 tons

Italy
(U. S. Mineral Trade Notes April 1950)

Revised figures are given for Production of Asbestos in Italy as follows:

1947	10,719 metric tons or 11,817 short tons
1948	13,044 metric tons or 14,378 short tons
1949	15,000 metric tons or 16,535 short tons

(This last figure is estimated)

The source of these figures of Italian production is the Ministero deli Industria e Commercio, Rome.

United States
(From U. S. Bureau of Mines)

Preliminary estimate of production of Asbestos in the United States during 1949 was 45,000 short tons. The actual figures have now been received—42,918 tons. Compared with 37,237 tons in 1948.

Chrysotile was produced in Vermont and Arizona with some development work in California. Amphibole output was reported from California, Georgia and Oregon.

Consumption

Domestic Asbestos	1949 Tons	1949 Value	1948 Tons	1948 Value
Sold or used by Producers	43,387	$ 2,614,416	37,092	$ 1,806,261
Imports (Unmanufactured)	515,303	33,939,582	647,881	37,974,092
Exports (Unmanufactured)	17,621	3,618,703	6,530	1,173,259
Apparent Consumption	541,069	32,935,295	678,443	38,607,094

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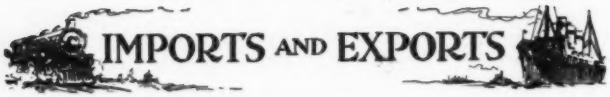
Mines and Mills in Gila Co., Arizona



Imports into U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos—By Countries

	February 1950 Tons (2240 lbs.)
From Canada	43,315
S. Rhodesia	134
U. of South Africa	896
Australia	21
Mozambique	76
	44,442
Valued at	*$3,606,144*

By Grades

Crude No. 1 Chrysotile, Canada	26
Crude No. 1 Chrysotile, S. Rhodesia	125
Crude No. 2 Chrysotile, Canada	32
Crude No. 2 Chrysotile, S. Rhodesia	9
Crude Other, Chrysotile, Canada	5
Crude Other, Chrysotile, U. of S. Africa	346
Crude, Blue, U. of S. Africa	89
Crude, Blue, Australia	21
Crude, Amosite, U. of S. Africa	461
Crude, Amosite, Mozambique	76
Textile Fibres, Chrysotile, Canada	1,243
Shingle Fibres, Chrysotile, Canada	5,403
Paper Fibres, Chrysotile, Canada	5,924
Other Fibres, Short, Chrysotile, Canada	30,682
	44,442

Manufactured Asbestos Goods:

	February 1950 Quantity (Lbs.)	Value
Asbestos Yarns		
United Kingdom	5,118	$ 3,676
Asbestos Packing—Fabric		
United Kingdom	1,029	1,118
Asbestos Packing—Not Fabric		
United Kingdom	1,892	1,145
Asbestos Woven Fabrics—Other		
United Kingdom	1,131	575

(Continued on page 32)

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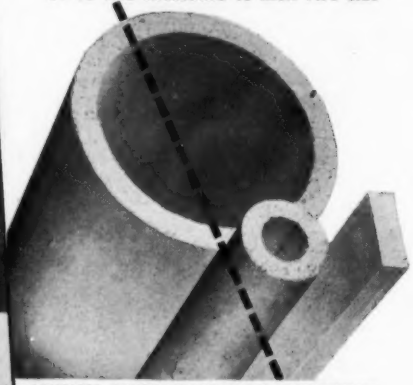

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PABCO

Imports Manufactured Asbestos Goods (Continued)

	February 1950 Quantity (Lbs.)	Value
Asbestos Brake Lng. (Molded)		
Canada	2	10
Asbestos-Cement Products, Not Impreg.		
Canada	100,183	9,330
Asbestos Manufactures—Other		
Various Countries	....	39
	109,355	$15,893

In our May number, page 26, we reported with a question, 670 tons of *Amosite* Asbestos imported from *Canada*. The Bureau of Census now advises that the material was actually Spinning or Textile fibre of the *Chrysotile* variety. It should be so marked in your copy of May "ASBESTOS".

Exports from U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	February 1950 Tons (2240 lbs.)	Value
To United Kingdom	....	$ ....
S. America	220	30,410
Central America and Mexico	....	....
Europe	652	180,519
Other Countries	134	39,000
	1,006	$249,929

Exports from U. S. A.—Manufactured Asbestos Goods:

		Quantity	Value
Asbestos Pipe Covg. & Cement	Lbs.	205,953	$ 20,137
Asbestos Textiles and Yarn	Lbs.	37,550	30,949
Asbestos Packing	Lbs.	126,814	92,219
Asbestos Brake Lng. (Mld.&S.Mld)	Lbs.	196,279	143,005
Asbestos Brake Lng. (Woven)	L. Ft.	35,846	18,796
Asbestos Clutch Facings	No.	96,416	39,820
Asbestos Brake Blks.	Lbs.	15,260	13,217
Asbestos Construction Materials	Lbs.	2,608,705	144,630
Asbestos Manufactures—Other		....	32,882
			$535,655

Asbestos Fabricator, Electrical Engineer, 38, desires position as production manager. Will assume full responsibility for the entire procedure of cutting and fabricating ebonized asbestos, Transite, Masonite, asbestos millboard, etc., products. Box 6G-Y, "ASBESTOS", 808 Western Saving Fund Bldg., Phila., 7, Pa.

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EXPORTS FROM CANADA

(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos

	March 1950 Tons (2000 lbs.)	Value
Crude		
United States	48	$ 30,614
United Kingdom	-	-
South America	-	-
Central America & Mexico	-	-
European Countries	30	17,600
Other Countries	-	-
	78	$ 48,214
Milled		
United States	14,775	$1,866,222
United Kingdom	3,413	439,655
South America	881	152,223
Central America & Mexico	568	76,500
European Countries	4,502	735,640
Other Countries	988	144,965
	25,127	$3,415,205
Shorts		
United States	36,656	$1,572,340
United Kingdom	1,520	62,951
South America	250	14,626
Central America & Mexico	95	6,061
European Countries	1,758	106,118
Other Countries	232	9,792
	40,511	$1,771,888
Grand Total—Unmanufactured Asbestos	*65,716*	*$5,235,307*
Manufactured Asbestos Goods:		
Brake Lining		$ 26,757
Packing		2,125
Other Materials		1,205
		$ 30,087

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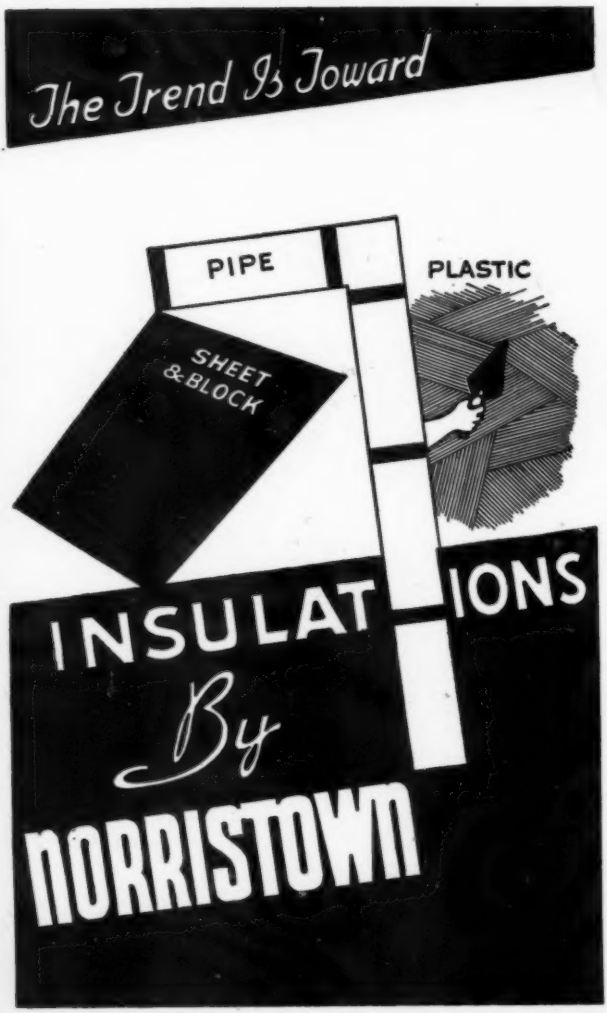
BLOOMFIELD, N. J.


The Trend Is Toward
PIPE
PLASTIC
SHEET
& BLOCK
INSULATIONS
By
NORRISTOWN

IMPORTS OF ASBESTOS BY UNITED KINGDOM

Raw Material

	April 1950 Tons (2240 lbs.)
From Union of S. Africa	1,253
Southern Rhodesia	3,483
Bechuanaland, Basutoland and Swaziland	644
Canada	3,633
Other Commonwealth Countries and the Irish Republic	126
Foreign Countries	72
	9,211

Of the imports in April 5,972 tons were of the Chrysotile variety; 3,239 of other kinds.

Tabulation supplied by Mining Journal Ltd. of London.

BUILDING

Construction records were broken for the second consecutive month with April's building and heavy engineering contract awards amounting to $1,350,496,000; topping by more than $50,000,000 the preceding month's all-time high, as reported by F. W. Dodge Corporation.

Prior to March 1950 the former record was $1,190,264,000 reached in June of wartime 1942. April's figure showed a 4 per cent increase over the preceding month and a 60% rise over April 1949. Contracts awarded in April 1950 provided for 128,457,000 square feet of building space.

Residential awards in April accounted for almost half of the month's total operations. The total in that classification was $674,836,000. This figure was 17% higher than the preceding month and 122% above the April 1949 aggregate.

Contracts were awarded during the first four month's of this year for a total of $4,161,082,000. This figure, according to the Dodge Corporation was 58% better than the total for the corresponding period in 1949.

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MINED IN THE UNION OF SOUTH AFRICA

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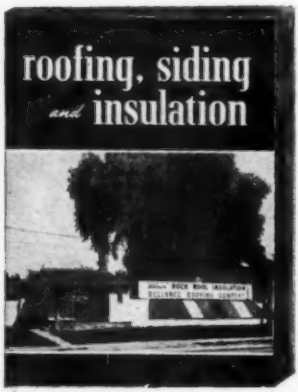

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NEWS OF THE INDUSTRY

BIRTHDAYS

E. B. Poulin, Secretary-Treasurer, Asbestonos Corp., Ltd., St. Lambert, Montreal, P. Q., Canada, June 20th.

Kenneth Gray, Director, The Cape Asbestos Co., Ltd., London, England, June 21st.

L. R. Leaver, Vice President, Thermoid Co., Trenton, N. J., June 21st.

Harold W. Donnelly, Vice President, Norristown Magnesia & Asbestos Co., Norristown, Pa., June 22nd.

C. A. Schell, Vice President, Thermoid Co., Trenton, N. J., June 22nd.

W. H. Dunn, former Treasurer (now retired), Raybestos-Manhattan, Inc., Passaic, N. J., June 22nd.

Walter G. Cowan, Vice President and General Manager of Manufacture, The Ruberoid Co., New York City, June 26th.

A. H. Bennett, President, A. H. Bennett Co., Minneapolis, Minn., June 27th.

H. A. King, Manager, Asbestos Fibre Sales, The Ruberoid Co., New York City, June 28th.

Frank R. Schueler, Vice President & Secretary, Asbestos, Asphalt & Insulation Mfg. Co., Chicago, Ill., June 30th.

Vincent W. Hemphill, Secretary, Standard Asbestos Mfg. Co., Chicago, Ill., July 1st.

S. E. Breuleux, Treasurer, The Philip Carey Mfg. Co., Lockland, Cincinnati, Ohio, July 6th.

Chas. S. Wood, Treasurer, Chas. S. Wood & Co., Newark, N. J., July 6th.

G. K. McKenzie, Secretary, The Flintkote Co., New York City, July 7th.

O. C. Smith, President, Bell Asbestos Mines Limited, Thetford Mines, P. Q., Canada, July 7th.

Capt. W. A. Janitch, R. E., Representative in Great Britain for Asbestos Corporation Limited, London, England, July 10th.

A. M. Ehret, Jr., President, Ehret Magnesia Mfg. Co., Valley Forge, Pa., July 11th.

H. W. Prentis, Jr., Chairman, Armstrong Cork Co., Lancaster, Pa., July 11th.

Thomas L. Gatke, President, Gatke Corporation, Chicago, Ill., July 16th.

Irving McCormick, President, The McCormick Asbestos Co., Baltimore, Md., July 13th.

Alfred Carr, Oldest Pipe Coverer, San Francisco, Calif., July 14th.

We extend to all these gentlemen our congratulations and best wishes on the occasion of their birthdays.

• BLUE ASBESTOS

The Cape Asbestos Company, Ltd., is the world's largest supplier of acid-resistant blue crocidolite asbestos, and the only manufacturer operating its own mines. Inquiries solicited on:

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This fibre owing to its great length and bulk is unrivalled for use as an insulating medium in:

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STANLEY WOODWARD ELECTED
Executive Vice President, Ruberoid

Stanley Woodward, formerly Vice President in charge of the Southern division of The Ruberoid Co., has been elected Executive Vice President of the Company.

Stanley Woodward

Mr. Woodward has been associated with The Ruberoid Co. as a Vice President and Director for the past 22 years. Prior to that he had been Vice President of the Continental Roofing and Mfg. Company of Baltimore, which he had helped to organize in 1922 and which was acquired by Ruberoid in 1928.

He has been connected with the building materials industry all of his working life, first with the Warren Chemical and Manufacturing Co., and later in executive positions with the Barrett Company.

HENNIG CO. MOVES HEADQUARTERS

Hennig Asbestos & Packing Co., on May 15th, moved to its new location at 1930 South State Street, Chicago 16, Ill., from which it expects to give improved service to its customers.

It was formerly located at 554 West Polk Street.

J-M ENLARGES PRODUCTION OF FLOORINGS

Johns-Manville has started work on a new high-speed production line that will more than double their output of resilient floorings—asphalt tile and Terraflex, a new plastic asbestos floor tile.

New equipment for this entirely mechanized, high capacity line is being installed in the J-M plant at Waukegan, Ill. It is scheduled to go into operation early in 1951 and will be followed by a second line to be installed at a different plant.

A large share of this new capacity will go into the production of Terraflex. This new flooring, first introduced in 1948, is made of vinyl resins and asbestos. The high percentage of asbestos fibre (50% by weight) makes it non-combustible and fire resistant.

The sale of this enlarged production of asphalt tile and Terraflex will continue to be handled thru J-M Approved Contractors, which marketing method assures quality installation.

CAREY DECLARES DIVIDEND

The Board of Directors of the Philip Carey Mfg. Company, at its regular quarterly meeting held May 19 at the company's general offices declared dividends on both preferred and common stock:—$1.25 per share on Carey 5% preferred stock (the regular quarterly dividend); a quarterly dividend of 40c per share on the common stock. Both dividends are payable June 30 to holders of stock of record June 9, 1950.

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CAPE ASBESTOS COMPANY
Annual Meeting

The Annual General Meeting of Cape Asbestos Company Limited of London was held on May 31st and reports and balance sheets as of December 31st, 1949 were submitted.

The Chairman, Robert Walker, reported combined net trading profit of the Group (Cape Asbestos Company and Subsidiaries) of £708,137 compared with £527,423 in 1948.

Trial production runs have been made of a new insulation board called "Asbestolux" and a Super High Temperature Insulating Slab has been added to the Uxbridge factory's range of products.

As to mining, the company's mining activities have been successful during the year (1949), the output of Amosite having been increased beyond their planned figures. Blue Asbestos production also, while continuing to present difficult problems and to entail considerably higher costs, showed a substantial improvement. Demand for both types of Asbestos remains strong and exceeds their present capacity to supply.

CAPE ASBESTOS COMPANY LIMITED
Capital Reorganization

At meetings of the shareholders of the Cape Asbestos Co. Ltd., held at their Head Office in London on May 31st, the proposals put forward by the Board for increasing the capital of the Company were unanimously approved.

In consequence, from June 1st all the £1 oridinary shares of the Company have been subdivided into units of 5/-d each. Secondly, holders of these shares have received one bonus share for every share held and have been invited to subscribe in addition for further 5/-d shares on a one for one basis at a price of 10/6d per share. As these shares opened on the London Stock Exchange on the morning of June 1st at around 14/6d a handsome bonus element is available to shareholders and indeed the price of Cape shares has hardened steadily since the first announcement of the plan was made.

The effect on the authorized capital of the Company is to increase it to fl,500,000. In issue there are now 4,018,560 ordinary shares of 5/-d each and 167,440 five per cent cumulative preference shares of fl each making the nominal value of the issued capital fl,172,080. The published figures show that the reserves of the Cape group still comfortably exceed this figure.

TAYLOR INSULATIONS MOVE

Taylor Insulations, Contractors and Distributors of industrial insulations, are now located at 948 Kensington Avenue, Buffalo 15, N. Y. They were formerly located at 231 North Park Ave. Their new telephone number is UNiversity 1569.

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RAYBESTOS-MANHATTAN ANNOUNCES NEW OFFICERS, DIRECTORS

At the annual meeting of the Board of Directors held recently, George R. Weber was elected Treasurer of Raybestos-Manhattan, Inc., succeeding W. H. Dunn, who has retired. W. S. Simpson was elected Secretary and W. Ward Kievit a Director of the Corporation.

In addition to his new responsibility Mr. Weber has been a Director and Vice President of Raybestos-Manhattan, Inc., since the formation of the Corporation in 1929 and is also General Manager of the United States Asbestos Division, Manheim, Penna.

Mr. Simpson, recently appointed Assistant General Manager of the Raybestos Division, Bridgeport, Conn., has been a Director of the Corporation for two years.

Mr. Kievit, who makes his headquarters at the Corporation's main office in Passaic, N. J., has been Secretary since 1946 and Comptroller since 1948. With his added duties as a Director he has relinquished his duties as Secretary.

"TROPAG"—JULIUS DIETTERLEIN
Made Director.

Julius Dietterlein on April 1st, was made Director of "Tropag" Asbestos & Erzimport Oscar H. Ritter, K. G., of Hamburg, Germany.

Mr. Dietterlein has been connected with the firm since 1910, and with this background of 40 years experience in many countries has acquired extensive experience in international business and a thoro knowledge in evaluating the raw materials handled by the firm.

MANHATTAN RUBBER HONORS
Forty-six 25-year Employees

Forty-six employees of Manhattan Rubber Division, Raybestos-Manhattan, Inc., who completed 25 years with the company during the past year were honored recently at the Sixth Annual Dinner of the Manhattan Pioneers. The new members joined a group of more than 600 employees with services running from 25 to 57 years. F. L. Curtis, Vice President, with 57 years of service, and Charles Kahn, a salesman in the company's New York Office with 56 years, are Manhattan's oldest Pioneers. John F. D. Rohrbach, President of Raybestos-Manhattan, Inc., was the principal speaker.

W. J. LITTLEFIELD ELECTED PRESIDENT OF THE M. I. T. CLUB

W. J. Littlefield, Comptroller for Financial Analysis of Johns-Manville Corporation, and a member of the graduating class of 1917, Massachusetts Institute of Technology, has been elected President of the M. I. T. Club in New York City.

Mr. Littlefield joined Johns-Manville in November 1937.

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CHRYSOTILE

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CANADA

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Large Capacity Fiberizing and Grading Plant

451 Communipaw Ave. **Jersey City, N. J.**

SALL MOUNTAIN CO. ELECTS NEW PRESIDENT
Ladd Wilson

The Sall Mountain Company is pleased to announce the election of Ladd Wilson of Oxford, Ohio, as its President.

Mr. Wilson will make his headquarters at the new Sall Mountain Plant in Rockdale, Hamilton, Ohio. He joined the company in 1922, in the production department of the manufacturing division. After 10 years in that end of the business he was transferred to the sales division where he has since that time been connected with the marketing of SAL-MO asbestos and other insulation products.

ANNOUNCEMENT

LIFE-BESTOS CO. ORGANIZED

The formation of an asbestos pipe manufacturing Company Life-Bestos Company was announced in Los Angeles, on May 22nd. The announcement was released by Chet L. Swital, public relations director of the newly organized company, and one of the organizers of the Corporation.

According to announcement the firm will manufacture asbestos pipe under the patents of Adrian Lubbers of Holland. It is claimed that the machine invented by Mr. Lubbers cuts the cost of asbestos pipe manufacture quite drastically.

Financing the corporate structure in Europe besides Mr. Lubbers is Ali Alatas, an Arabian; while in the United States the men principally interested are Arthur Harrington of the Marmor-Harrington Co. of Indianapolis and John L. Greer of Glendale, Calif.

The new company expects to begin operations within six months. An asbestos deposit near Los Angeles in the foothills fringing the Mojave Desert is also controlled by the new firm.

FUTURE PLANS FOR J-M
DISCUSSED WITH STOCKHOLDERS

At the annual meeting of Johns-Manville Corporation stockholders on May 12th, Lewis H. Brown, Chairman of the Board, discussed the company's plans for the future. Mr. Brown said that projects for the future included enlargement of production facilities in California, Illinois and New Jersey as well as increased production of asbestos fibre in Ontario and Quebec.

Extensive improvements are planned at two or three plants to produce new magnesia products and other new types of high temperature insulation, the plants selected being at Manville, N. J., Waukegan, Ill., and Redwood City, Calif.

The new asbestos mine and mill near Matheson, Ontario, are being placed in production; preparation is being made to increase production of asbestos at Asbestos, Quebec, and increased sales of asbestos fibre in Canada, the United States and foreign countries is anticipated.

ROVINGS	WEBBINGS
YARNS	TUBING
CLOTHS	JOINTINGS
TAPES	PACKINGS

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MINING JOURNAL ANNUAL REVIEW NUMBER

The annual review number of the Mining Journal published in London, (at 15, George St., Mansion House, London E. C. 4) was issued in May and contained 200 pages. Seventy specially contributed articles, reporting on the mining industry thruout the world during 1949 are among its contents. The contents can be roughtly grouped as Metals, Mining and Metallurgical Developments, and a Review of the Year covering the various mining fields.

ARTICLE

Foreign Commerce Weekly, May 15th issue, contains an article "Canadian Asbestos Producers Unable to Keep Pace with Demand", in which is included a table of Canada's Exports of Unmanufactured Asbestos for 1937-38 average, 1948 and 1949.

AUSTRALIA

U. S. Mineral Trade Notes for April 1950 contains the following paragraph on asbestos in Australia:

The blue asbestos of Australia is produced at the rate of about 90 long tons per month in the Wittenoom Gorge by the Colonial Sugar Refining Co., for building materials. An attempt is being made to solve the housing and labor shortages, which would have to be overcome before the industry could go into full production (Editor's Note: A description of this asbestos mine will be found in September 1946 "ASBESTOS", page 10).

In addition Australia has small deposits of white asbestos; one mine at Nunnyerrie is producing for the English market. *(Report by Consul Robert L. Hunter, Sydney).*

AUTOMOBILE SALES

	April 1950
Passenger Cars	455,193
Motor Trucks	103,850
Motor Coaches	268
	559,311

Total sales for April 1949 were 543,118; for March 1950 they were 580,660. For the first four months of 1950 sales totaled 2,196,802, compared with 1,919,177 for the first four months of 1949.

These figures cover only cars made in the United States. Source; Automobile Manufacturers Association, New Center Building, Detroit 2, Mich.

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now in 3 sizes and FULLY AUTOMATIC. Makes Asbestos-Cement Pressure Pipes with or without sockets, Sewage and Rainwater Pipes with Sockets.
ALL DIAMETERS (2" to 40")
ALL LENGTHS (6' to 20')
ALL PRESSURES (50 to 200 lbs. per sq. inch and High Pressure Pipes class 1000 lbs. per sq. inch)

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AFTERTHOUGHTS

¶ The name of Alfred Carr is given in our birthday list as having his birthday on July 14th. We have just heard he is still working at the trade. Altho we can't tell you his exact age, we feel sure he is the oldest *working* pipe coverer.

¶ On Page 46 is a news item about the Life-Bestos Co., of Los Angeles, a newly organized firm which expects to make asbestos-cement pipe by a new process. No one in the East seems to have heard of them. We shall endeavor to report on them further.

¶ May 1950 issue of "ASBESTOS", page 24 gives certain figures on Cyprus production, for 1st quarter of "1949". This was an error—change it in your copy of May "ASBESTOS" to "*1950*".

¶ We are offered (subject to prior sale) a copy of the book "Asbestos and Asbestic" by R. H. Jones, the price being $13.50. Is anyone interested? The book is at present in Australia. Altho we don't have a copy of this particular book, we have refused it at the price quoted, but will be glad to order for anyone else who may be interested.

¶ We understand there is quite a rush for asbestos in Natal (Africa). One mine has been put in operation after having been abandoned for many years. A firm in Zululand is said to be turning out large quantities of asbestos. In the Nkandhla district it is reported that one operator has taken out more than 200 prospecting licenses.

¶ Mrs. Strack's book "Asbestos; A Magic Mineral" is reported out of print. Whether a new edition will be printed has not yet been decided.

¶ In the recently issued annual report of the Executive Committee of the Chamber of Mines of Rhodesia, it is reported that in 1949 there were employed in Rhodesia Asbestos Mines, 437 Europeans and 9,116 natives. In 1948, 411 Europeans were employed and 9,509 natives.

¶ Note (see Book List page 51) that the Reprints of Dr. Halstead's article on Brake Linings are at long last ready. Send for this very interesting and informative article to add to your Asbestos Library.

BOOK LIST

The Asbestos Factbook, 16 pages. Information in compact form on origin, facts, locations, uses, analyses, qualities, 10c per copy.

Asbestos Mining Methods. By C. V. Smith. (Reprint) 16 pages. 25c per copy.

Milling Asbestos. By J. C. Kelleher. (Reprint) 16 pages. Companion article to Asbestos Mining Methods. Both should be in every Asbestos Library, 25c per copy.

Recovery of Raw Asbestos. By Roland Starkey. (Reprint) 6 pages. Supplement to Milling Asbestos. 25 per copy.

Canadian Chrysotile Asbestos Classification. Including latest Quebec Testing Method. January 1, 1949 Edition. 4 pages. 25c per copy.

Processing Asbestos Fibres. 8 pages. (Reprint) 25c per copy

Tests for Cotton Content. 4 pages (Reprint) Describing several methods of testing asbestos textile for cotton content. 10c per copy.

Chart—Dollars Cost of Uninsulated Pipe. (Reprint) 20c each

Brake Linings of Various Types, By R. T. Halstead. Reprint (12 pages) from August, September and October 1949 "ASBESTOS". Price 25c per copy.

Asbestos—The Silk of the Mineral Kingdom, by Oliver Bowles. 40 pages about asbestos, from mine to finished products, in plain language, illustrated, 25c a copy.

Twelve Estimating Tables, with Chart. Convenient in figuring flange fittings and other areas. $1.00 per set.

Manual of Unit Prices. For figuring pipe covering and blocks. 75c per single copy postpaid. Discount in quantities of 6 or more, postage billed. Note *increase* in price.

Order any of the above from "ASBESTOS", 808 Western Saving Fund Bldg., Philadelphia 7, Pa. Postage stamps acceptable for amounts less than $1.00.

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CURRENT RANGE OF PRICE

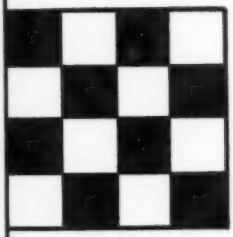
As of April 10, 1950

Canada—	Per Ton (2000 lbs.) f.o.b. Mine		
Group No. 1 (Crude No. 1)	$960.00	to	$1,050.00
Group No. 2 Crude No. 2; Crude Run-of-Mine and Sundry	400.00	to	550.00
Group No. 3 (Spinning Fibre)	232.00	to	425.00
Group No. 4 (Shingle Fibre)	95.50	to	141.00
Group No. 5 (Paper Fibre)	78.50	to	88.00
Group No. 6 (Waste, Stucco or Plaster)			58.00
Group No. 7 (Refuse or Shorts)	28.00	to	52.00
Vermont—			
	Per Ton of 2000 lbs. f.o.b Hyde Park or Morrisville, Vt.		
Group No. 4 (Shingle Fibre)	$111.50	to	$124.00
Group No. 5 (Paper Fibre)	79.00	to	96.50
Group No. 6 (Waste, Stucco or Plaster)			59.00
Group No. 7 (Refuse or Shorts)	28.50	to	52.50

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial and Financial Chronicle. No guarantee as to their correctness).

		May 1950		
	Par	Low	High	Last
Armstrong Cork (Com.)	np	50	52¾	51½
Armstrong Cork (Pfd.)	np	101¼	104¼	102½
Armstrong Cork (Conv. Pfd.)	np	112½	116½	116⅛
Asb. Corp. (Com.)	np	24	30	29¾
Asb. Mfg. Co. (Com.)	1	1¼	1⅝	1⅜
Carey (Com.)	10	18¾	20⅜	19⅛
Celotex (Com.)	np	18⅛	19⅜	19
Celotex (Pfd.)	20	16½	17⅜	16⅝
Certainteed (Com.)	1	17⅝	18¾	18
Flintkote (Com.)	np	29⅝	33⅜	30⅛
Flintkote (Pfd.)	np	103¾	105¾	104½
Johns-Manville (Com.)	np	48⅛	51½	50½
Paraffine (Com.)	np	16¼	17½	17
Paraffine (Pfd.)	100	99½	100¾	100
Ray-Man (Com.)	np	29	33	32
Ruberoid (Com.)	np	59	61¾	60½
Thermoid (Com.)	1	6⅜	7	7
Thermoid (Pfd.)	50	40½	43	42
Union Asb. & Rub. (Com.)	5	12	12⅞	12¾
United Asb. (Com.)	1	53c	70c	60c
U. S. Gypsum (Com.)	20	123⅝	133⅞	131
U. S. Gypsum (Pfd.)	100	185	188¾	188¾
U. S. Rubber (Com.)	10	41¾	47¼	47¼
U. S. Rubber (Pfd.)	100	128⅓	136	135¼



NO

The code flag above is the international signal for "No." It's a flag you'll never see flying above the research departments of Raybestos-Manhattan. We welcome those who seek new products from asbestos. Our answer to requests for cooperative research is in the affirmative.

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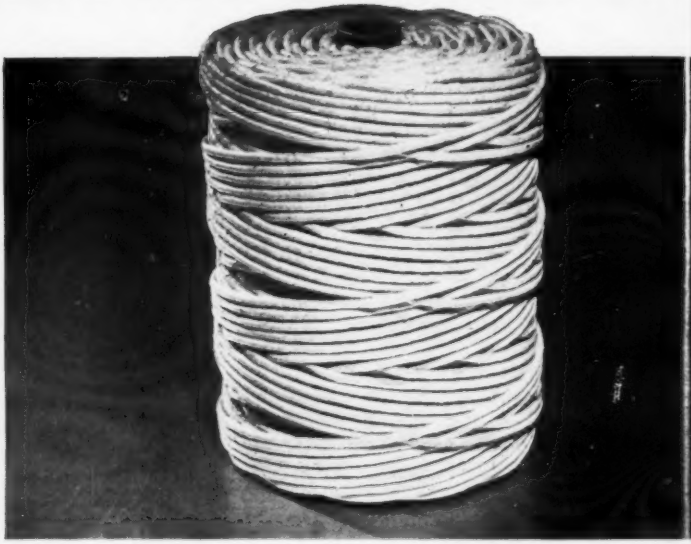
SOUTHERN ASBESTOS



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